

Notice of Allowability

Application No.

09/656,146

Applicant(s)

BEAUSOLEIL ET AL.

Examiner

Dwin M. Craig

Art Unit

2123

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/26/2005.
2. ☒ The allowed claim(s) is/are 10-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

And

EXAMINER'S REASONS FOR ALLOWANCE

1. Claims 10-20 are allowed.
2. Claims 1-9 are cancelled.

Drawings

3. The Examiner thanks the Applicants' for providing formal drawings and the Examiner withdraws any previously applied objection to the same.

Examiner's Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: The Applicants' claims are allowable for at least the reasons cited.
 - 4.1 As regards independent claims 10, 13 and 17 and using independent claim 10 as an example, the following limitations, in combination with other limitations, are neither anticipated nor made obvious over the prior art, "*an operating clock rate of said processors differing from said operating clock rate of said memory*". The Examiner notes that the prior art neither teaches nor provides motivation to provide a teaching for an emulation system wherein there is a cluster of processors, accessing a memory system, using a time division multiplexer and further teaching that the operational clock rates of the memory and the processors are different. Further, this specific implementation detail, as disclosed in Applicants' instant amendments, is neither disclosed nor made obvious by the prior art. Finally, the combination of Applicants' arguments presented on pages 9 & 10 of the 9/26/2005 responses have been, in combination with the instant

Art Unit: 2123

amendments, persuasive such that the Examiner withdraws all of the previously applied prior art rejections.

4.2 Dependent claims 11, 12, 14-16 and 18-20 are allowed for at least the reason that they depend upon and allowed base claim.

4.3 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

European Patent Application 0 504 515 A2, Moore, discloses a memory emulation test system where the Unite Under Tests boot ROM runs at its own clock rate (Abstract). The Examiner notes however, that Moore fails to disclose or suggest an emulation system wherein a plurality of processor accesses a memory using a time division multiplexer.

US Patent 5,444,860 discloses a message transfer system wherein different clock rates are used, (Abstract and Figure 1B), it is noted by the Examiner that this reference neither discloses clusters of processors, any type of emulation nor shared access of a memory system being accessed by the clusters of processors.


5.1 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwain M. Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 - 6:00 M-F.

Art Unit: 2123

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DMC


Paul L. Rodriguez 12/9/05
Primary Examiner
Art Unit 2125